

Cited Reference 5

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Japanese Patent Application No. 163661/1989

(Filing Date: June 28, 1989)

Applicant: Osaka Aerosol Industries Co., Ltd.

Title of Invention: Post-Application Foaming Gel Composition

Disclosure A: (Page 1, left lower column 3 to right lower column 7)

"2. Claims

1. A post-application foaming gel composition which comprises a gelling agent 0.01 to 5% by weight, a surfactant 0.01 to 5% by weight, water 40 to 98% by weight, a post-foaming agent 0.05 to 20% by weight, and/or which comprises further adding an active component 0.1 to 10 % by weight, an alcohol 5 to 50% by weight, characterized in that said composition is maintained in a gelatinous state at least for 30 seconds at a normal temperature and under atmospheric pressure, when a shearing stress was added to hair, the composition foams, and when the shearing stress was continuously added, the composition destroys the foam in a short time."

2. The post-foaming gel composition according to claim 1 wherein the gelling agent is carboxyvinyl polymer, the surfactant is a nonionic form of HLB10 or above, the post-foaming agent is at least one selected from isopentane, normal pentane, isobutene, normal butane, propane and dimethyl ether, and in case where alcohol is contained, the alcohol is monohydric alcohol."

3. The post-foaming gel composition according to any one of claims 1 and 2 wherein the post-foaming agent comprises 80 % by weight or above of the component selected from isopentane and normal pentane and less than 20 % by weight of the component selected from isobutene, normal isobutene, propane and dimethyl ether."

PATENT ABSTRACTS OF JAPAN

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(54) AFTER-FOAMABLE GEL COMPOSITION

(57)Abstract:

PURPOSE: To obtain a new gel composition showing after-foaming properties not containing soap, free from greasiness at all after use, comprising a gelatinizing agent, surfactant, water, after-foaming agent, etc., in a specific ratio.

CONSTITUTION: The title composition which contains (A) 0.01-5wt.% gelatinizing agent comprising preferably a carboxyvinyl polymer, (B) 0.01-5wt.% nonionic surfactant having preferably ≥ 10 HLB, (C) 40-98wt.% water, (D) 0.5-20wt.% after-foaming agent consisting of preferably (i) ≥ 80 wt.% component comprising isopentane and/or n-pentane and (ii) ≤ 20 wt.% component selected from isobutane, n-butane and dimethyl ether and optionally (E) 0.1-10wt.% active component and (F) 5-50wt.% alcohol, maintains a gelatinous state at normal temperature under atmosphere for ≥ 30 seconds, foams by applying shear stress to the composition and destroys foams in a short time by continuing application of shear stress.